



Dottorato in Fisica

Special Lecture Series

LHC phenomenology

Monday 16/9 to Friday 21/9

Andre David Tinoco Mendes, IST Lisbon and CERN

Advanced Topics in Higgs Physics

- 16/9 - ore 11-13: **Nature 1 - 1 LHC (half-time).**
 - 17/9 - ore 11-13: **HEP detectors and triggers for Higgs physics.**
 - 18/9 - ore 11-13: **Higgs to diphoton - an analysis case study.**
 - 19/9 - ore 11-13: **Data visualisation and machine learning, part I.**
 - 19/9 - ore 14-16: **Data visualisation and machine learning, part II.**
 - 20/9 - ore 11-13: **Higgs experimental status.**
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Monday 30/9 to Friday 4/10

Eric Laenen, University of Amsterdam and Nikhef

Advanced Perturbative QCD for Collider Physics

- 30/9 - ore 11-13: **Basics of QCD: from symmetry to phenomenology.**
 - 1/10 - ore 11-13: **Precision QCD: going beyond tree level.**
 - 2/10 - ore 11-13: **Renormalisation and renormalisation group for QCD.**
 - 2/10 - ore 14-16: **Infrared issues in QCD and collinear factorisation.**
 - 3/10 - ore 11-13: **All-order techniques for QCD amplitudes and cross sections.**
 - 4/10 - ore 11-13: **QCD resummation and phenomenological applications.**
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Sala Fubini - Dipartimento di Fisica
Università di Torino
Via Pietro Giuria 1, 10125 Torino